Fishing & Boating Services





Fishing & Boating Services

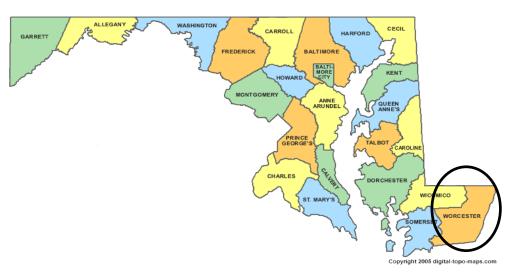






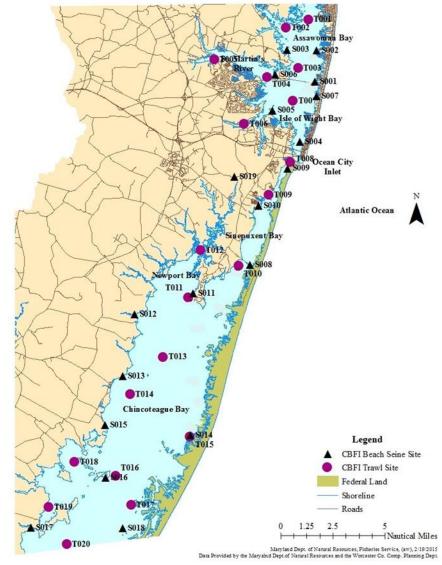
Overview of survey area





Survey Overview and History

- Trawl Survey (1989-2021)
- Beach Seine Survey (1989-2021)
- SAV Habitat Survey (2015-2021)



Trawl Survey



Survey Overview and History

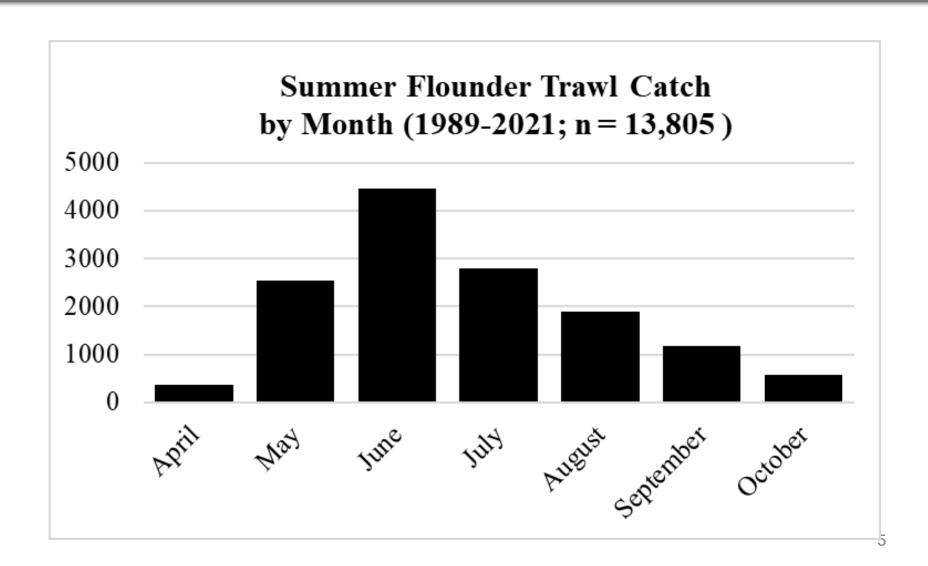
- Trawl Survey started in 1972 and standardized data from 1989-2021
- April through October
- 20 fixed sites each month from Assawoman Bay to Chincoteague Bay
- 140 sites (trawls) per year
- A standard 16 ft semi-balloon trawl net was used in areas with a depth greater than 3.5 ft. Each trawl was a standard six-minute tow at a speed of approximately 2.5 to 2.8 knots.

Data Outputs

- Stock assessments for Summer Flounder, Black Sea Bass and Atlantic Menhaden
- State IFMP Compliance for above species and American Eel, Atlantic Croaker, Spot and Weakfish
- USF&WS Annual Report 13 species highlighted
- Government and Non-Governmental Organization Data Requests

Trawl Survey





Beach Seine Survey



Survey Overview and History

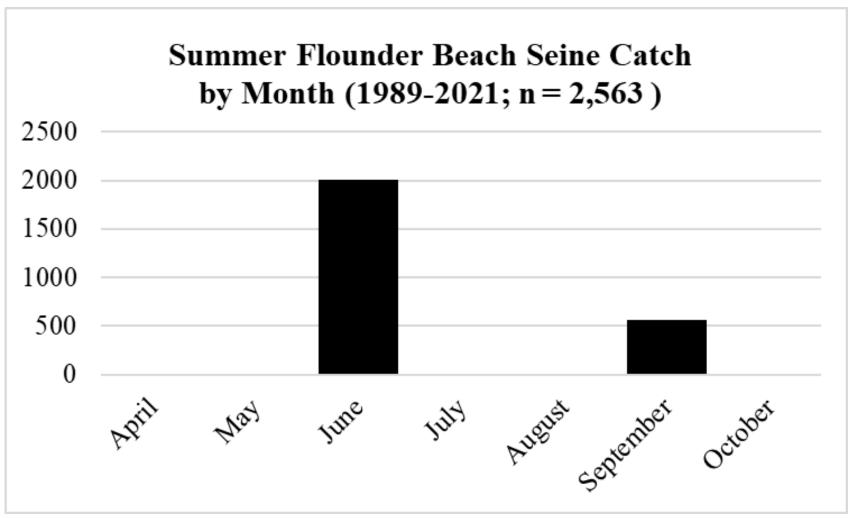
- Beach Seine Survey started in 1972 and standardized data from 1989-2021
- June and September
- 18 fixed sites from Assawoman Bay to Chincoteague Bay and one site in Ayres Creek.
- 38 sites (seine hauls) per year
- 100 ft X 6 ft X 0.25 inch mesh bag seine with a buoyed float line and a weighted footrope.

Data Outputs

- Stock Assessments for Atlantic Menhaden, Spotted Seatrout and Black Drum
- State IFMP Compliance for above species, Summer flounder, Spot and Bluefish
- USF&WS Annual Report 13 species highlighted
- Government and Non-Governmental Organization Data Requests

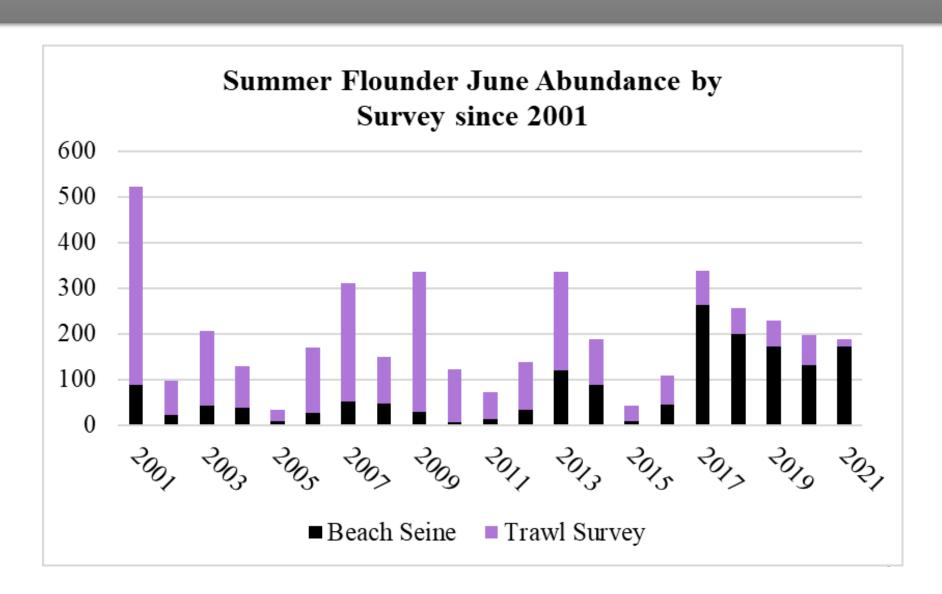
Beach Seine Survey





Beach Seine Survey







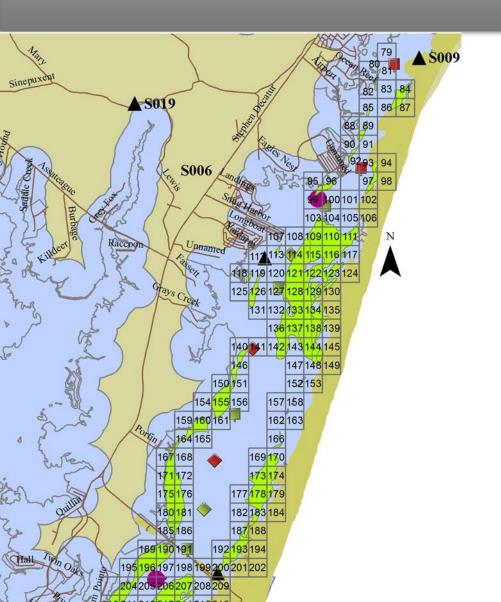
Survey Overview and History

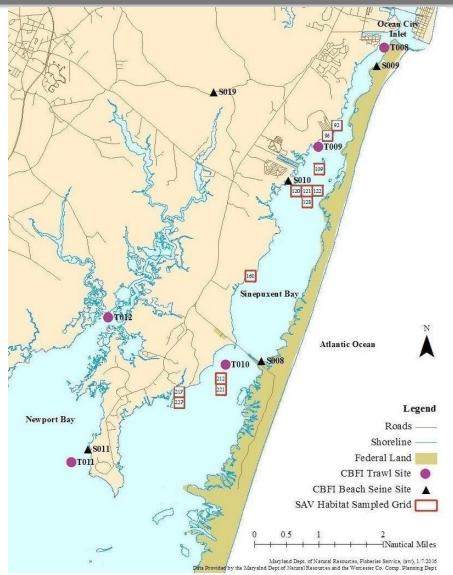
- SAV Habitat Survey (2015-2021)
- September, Sinepuxent Bay
- Mobile sites within zones
- Less effort than Trawl or Beach Seine
- Average number of sites (seine hauls) per year is 12
- 50 ft X 6 ft X 0.25 inch zippered mesh bag seine with a buoyed float line and a weighted footrope.

Data Outputs

- In consideration for the next Tautog stock assessment
- State IFMP Compliance for Tautog
- USF&WS Annual Report focused on fish CPUE by SAV characteristics
- Government and Non-Governmental Organization Data Requests















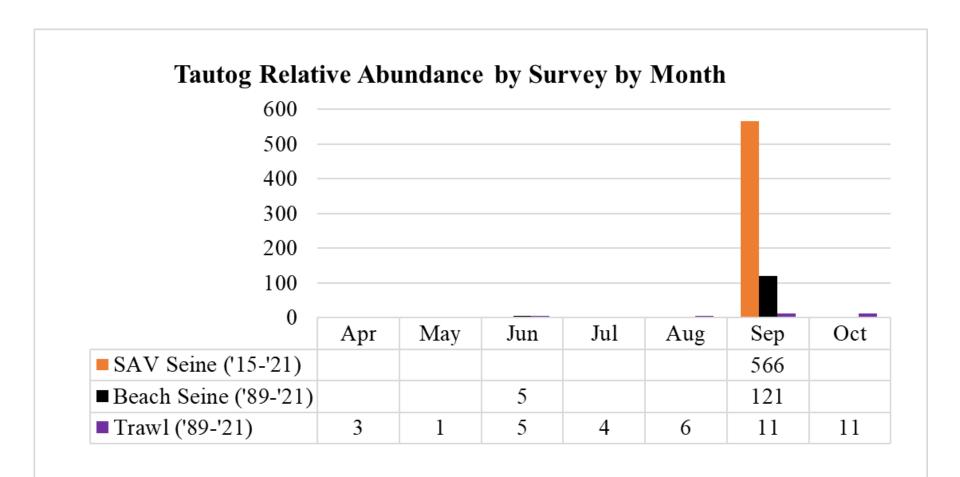




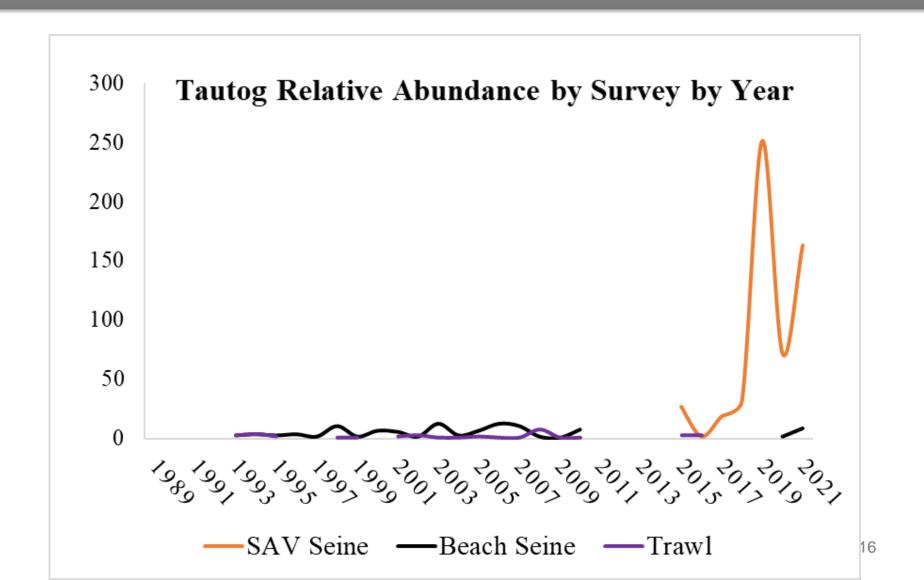
Atlantic silverside (Menidia menidia)	7054
Silver perch (Bairdiella chrysoura)	5939
Tautog (Tautoga onitis)	566
Sheepshead (Archosargus probatocephalus)	423
Halfbeak (Hyporhamphus unifasciatus)	246
Black sea bass (Centropristis striata)	181
Striped anchovy (Anchoa hepsetus)	165
Dusky pipefish (Syngnathus floridae)	136
Spotfin mojarra (Eucinostomus argenteus)	136
Northern pipefish (Syngnathus fuscus)	128
Pigfish (Orthopristis chrysoptera)	109
Oyster toadfish (Opsanus tau)	100
Striped blenny (Chasmodes bosquianus)	100
Pinfish (Lagodon rhomboides)	98
Bay anchovy (Anchoa mitchilli)	71
Spot (Leiostomus xanthurus)	67
Summer flounder (Paralichthys dentatus)	27
Northern puffer (Sphoeroides maculatus)	26
Gray snapper (Lutjanus griseus)	24
Striped burrfish (Chilomycterus schoepfii)	20
Bluespotted cornetfish (Fistularia tabacaria)	18
Spotfin butterflyfish (Chaetodon ocellatus)	14
Atlantic menhaden (Brevoortia tyrannus)	11
Atlantic needlefish (Strongylura marina)	10

Rainwater killifish (Lucania parva)	10
White mullet (Mugil curema)	10
Feather blenny (Hypsoblennius hentz)	7
Naked goby (Gobiosoma bosc)	6
Spotted seatrout (Cynoscion nebulosus)	6
Southern kingfish (Menticirrhus americanus)	5
American eel (Anguilla rostrata)	4
Blackcheek tonguefish (Symphurus plagiusa)	4
Bluefish (Pomatomus saltatrix)	4
Lined seahorse (Hippocampus erectus)	4
Northern kingfish (Menticirrhus saxatilis)	4
Striped mullet (Mugil cephalus)	4
Black drum (Pogonias cromis)	3
Inshore lizardfish (Synodus foetens)	3
Atlantic croaker (Micropogonias undulatus)	2
Atlantic spadefish (Chaetodipterus faber)	2
Southern stingray (Dasyatis americana)	2
Cobia (Rachycentron canadum)	1
Gag (Mycteroperca microlepis)	1
Harvestfish (Peprilus paru)	1
Lookdown (Selene vomer)	1
Skilletfish (Gobiesox strumosus)	1
Spanish mackerel (Scomberomorus maculatus)	1
Striped killifish (Fundulus majalis)	1









Questions



